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**CLAIMS:**

What is claimed is:

1.    A method for intelligent audio output control, the method comprising:

obtaining values for a set of input parameters;

obtaining an audio output parameter prediction based on the values for the set of input parameters; and

adjusting an audio output parameter for an audio system using the audio output parameter prediction.

2.    The method of claim 1, wherein the step of obtaining values for a set of input parameters includes receiving values from one or more sensors.

3.    The method of claim 1, wherein the set of input parameters includes at least one of speed, whether a window is open or closed, interior or exterior noise levels, whether a convertible top is up or down, windshield wiper use, windshield wiper level, whether headlights are on, and global positioning system (GPS) coordinates.

4.    The method of claim 1, wherein the set of input parameters includes audio type.

5.    The method of claim 1, wherein the step of obtaining an audio output parameter prediction includes:

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receiving a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value; and

performing statistical analysis on the plurality of data points to determine an audio output parameter prediction.

6. The method of claim 5, wherein the statistical analysis includes at least one of performing an average, performing linear regression analysis, performing multiple regression analysis, performing linear extrapolation, performing curve fitting, and removing outliers.

7. The method of claim 5, further comprising:

storing the values for the set of input parameters and the audio output parameter prediction as a data point.

8. The method of claim 1, further comprising:

receiving user input of an audio output parameter value;

obtaining values for the set of input parameters; and

storing the values for the set of input parameters and the audio output parameter value as a data point.

9. The method of claim 1, wherein the step of obtaining an audio output parameter prediction includes:

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identifying a closest data point within a plurality of historical data points; and

setting the audio output parameter prediction to an audio output parameter value of the closest data point.

10. The method of claim 1, wherein the audio output parameter is one of volume level, balance, fade, bass, treble, and equalizer settings.

11. An apparatus for intelligent audio output control, the apparatus comprising:

means for obtaining values for a set of input parameters;

means for obtaining an audio output parameter prediction based on the values for the set of input parameters; and

means for adjusting an audio output parameter for an audio system using the audio output parameter prediction.

12. The apparatus of claim 11, wherein the means for obtaining values for a set of input parameters includes one or more sensors.

13. The apparatus of claim 11, wherein the set of input parameters includes at least one of speed, whether a window is open or closed, interior or exterior noise levels, whether a convertible top is up or down, windshield wiper use, windshield wiper level, whether

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headlights are on, and global positioning system (GPS) coordinates.

14.   The apparatus of claim 11, wherein the set of input parameters includes audio type.

15.   The apparatus of claim 11, wherein the means for obtaining an audio output parameter prediction includes:

means for receiving a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value; and

means for performing statistical analysis on the plurality of data points to determine an audio output parameter prediction.

16.   The apparatus of claim 15, wherein the statistical analysis includes at least one of performing an average, performing linear regression analysis, performing multiple regression analysis, performing linear extrapolation, performing curve fitting, and removing outliers.

17.   The apparatus of claim 15, further comprising:

means for storing the values for the set of input parameters and the audio output parameter prediction as a data point.

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18.   The apparatus of claim 11, further comprising:

means for receiving user input of an audio output parameter value;

means for obtaining values for the set of input parameters; and

means for storing the values for the set of input parameters and the audio output parameter value as a data point.

19.   The apparatus of claim 11, wherein the means for obtaining an audio output parameter prediction includes:

means for identifying a closest data point within a plurality of historical data points; and

means for setting the audio output parameter prediction to an audio output parameter value of the closest data point.

20.   The apparatus of claim 11, wherein the audio output parameter is one of volume level, balance, fade, bass, treble, and equalizer settings.

21.   A computer program product, in a computer readable medium, for intelligent audio output control, the computer program product comprising:

instructions for obtaining values for a set of input parameters;

instructions for obtaining an audio output parameter prediction based on the values for the set of input parameters; and

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    instructions for adjusting an audio output parameter for an audio system using the audio output parameter prediction.